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(71) Applicant: **MITSUBISHI ELECTRIC CORP**

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(72) Inventor: **FUJITA YOJI**

(54) LIQUID ELECTROLYTE FUEL CELL

(57) Abstract:

PURPOSE: To prevent leakage of an electrolyte in an electrolyte layer through a gas sealing part and to steadily operate for a long time by forming a gas sealing part by interposing at least one sealing material comprising electrical insulator arranged at the end of an electrolyte layer and on its outside through at least one space between separators.

CONSTITUTION: A gas sealing part in separators 1a, 1b is formed by interposing a sealing material 13 comprising electrical insulator arranged at the end of an electrolyte layer 11 and on its outside through at least one space 12 between separators 1a, 1b or between the separator 1a and a gas impermeable member 14. Leakage of electrolyte in the electrolyte layer is decreased by the space formed in the gas sealing part. A liquid electrolyte fuel cell having long life is obtained.

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